

D7 (CN2495883Y):  
Title of the Utility Model

Metal and Plastic Compounded Tubular Member

Abstract

The present utility model relates to a metal and plastic compounded tubular member for specific application in aluminum and plastic compounded tubes. The claimed compounded tubular member makes use of a special engineering plastic, and fabricated in one molding process. It comprises a tubular body, and is characterized in that: the tubular body is concave in the middle and convex at both ends to form a stepped shape of the end face concave outside and convex inside, and the inner wall of the tubular member is smooth; a bowl-shaped metallic compression-resistant ring is embedded in the outwardly convex cylinder, and a stuff container assuming the shape of a chamfer of 45° is disposed at the end opening of the tubular member. The plastic tubular member can be a direct connection of equal diameter, varying diameter or metal with male and female threads, a tee-joint of equal diameter, varying diameter or metal with male and female threads, a bent connection of equal diameter, varying diameter or metal with male and female threads, or a pipe cap. The claimed plastic tubular member has the advantages of being compression resistant, hot water and high temperature resistant, corrosion resistant, long in life, low in flow resistance, innocuous and sanitary, conforming to environmental protection requirements, simple in assembly, easy for operation, and low in material and production costs.

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## [12] 实用新型专利说明书

D7

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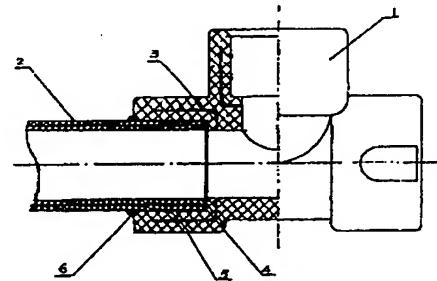
代理人 吴磊

权利要求书 2 页 说明书 4 页 附图页数 4 页

[54] 实用新型名称 金属塑料复合管件

[57] 摘要

本实用新型涉及铝塑复合管专用金属塑料复合管件。该复合管件是用特种工程塑料，以一次成型工艺制成，其包括管件体，其特征是管件体为中部凹，各端口凸起，形成外凹内凸的端面台阶形状且管件的内壁光滑，外凸起的圆筒内嵌埋一个碗型的金属抗压圈，管件端口有呈 45°倒角的储料槽。该塑料管件可以是等径、异径或嵌金属内外螺纹直通、等径或异径或嵌金属内外螺纹三通以及等径、异径或嵌金属内外螺纹弯通以及管帽等等。该塑料管件具有以下优点：耐压力、耐热水高温、耐腐蚀、寿命长、流阻小、无毒卫生、符合环保要求，并且管件的安装工艺简单、易于操作，材料及成型工艺成本低。



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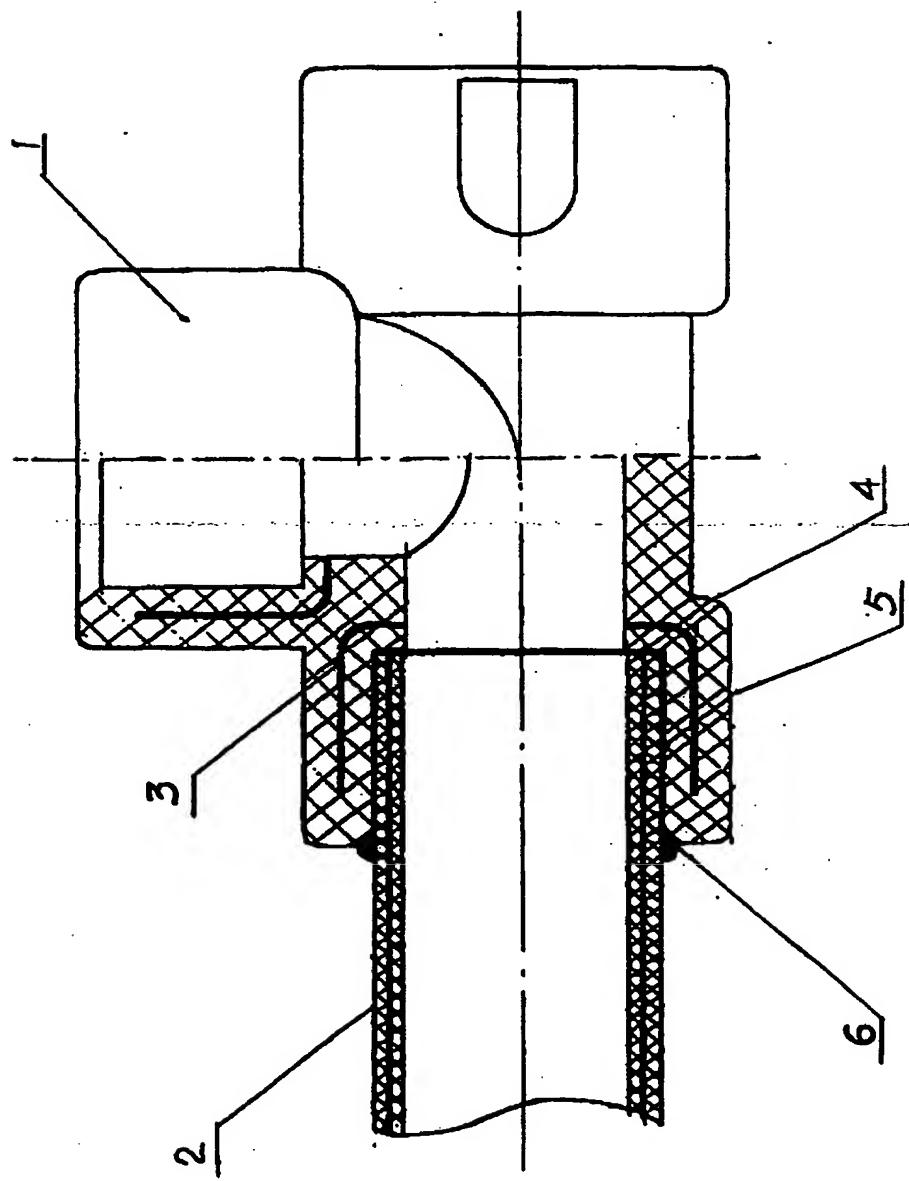


图 4